



(19)

Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 1 226 787 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
17.12.2003 Bulletin 2003/51

(51) Int Cl.7: A61B 18/20

(43) Date of publication A2:
31.07.2002 Bulletin 2002/31

(21) Application number: 02001860.2

(22) Date of filing: 28.01.2002

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR

Designated Extension States:
AL LT LV MK RO SI

(30) Priority: 29.01.2001 IT MO010008

(72) Inventor: Meloni, Gian Paolo
41100 Modena (IT)

(74) Representative: Guareschi, Antonella
Gidlemme S.r.l.,
474/M, Via Giardini
41100 Modena (IT)

(71) Applicant: Laserwave S.r.l.
41100 Modena (IT)

(54) Device for cutaneous treatments using optical radiation

(57) The invention falls into the field of devices designed to enable cutaneous treatments involving optical radiation. An optical cooling unit (1) is composed of a container with two sides (3) and (4) opposite each other, parallel to each other and spaced out by a cavity (2). The said two sides are composed, for the main part of

their surface, of two optically transparent elements (3a) and (4a). The cavity (2) is designed to enable the continual circulation of a cooling liquid. The optical cooling unit (1) is attached integrally to a device (7) and it is crossed, at a substantially orthogonal angle, by optical radiation (10). Additional optics (15), reciprocally interchangeable, may be inserted in a seating (14).

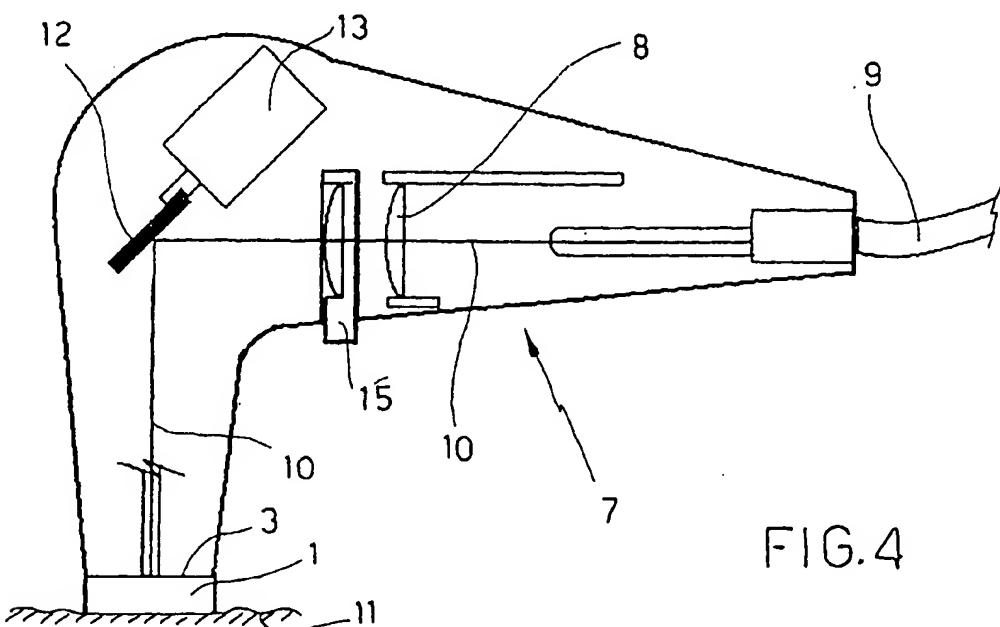


FIG.4



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	WO 00 53261 A (DOLLERIS CASPER ; BALLE PETERSEN OLAV (DK); ASAHL Bjarne (DK); ASAHL) 14 September 2000 (2000-09-14) * page 34, line 17 - page 36, line 26; figures 10,11 *	1	A61B18/20
A	EP 1 057 454 A (NIDEK KK) 6 December 2000 (2000-12-06) * paragraph [0025] - paragraph [0035] *	1	
A	US 5 057 104 A (CHESS CYRUS) 15 October 1991 (1991-10-15) * column 4, line 45 - column 5, line 24 *	1	
A	US 5 486 172 A (CHESS CYRUS) 23 January 1996 (1996-01-23) * column 3, line 16 - column 4, line 44 *	1	
A	US 6 171 302 B1 (ZOBEL IZHAK ET AL) 9 January 2001 (2001-01-09) * column 9, line 39 - column 10, line 23 *	1	
A	US 5 312 397 A (COSMESCU IOAN) 17 May 1994 (1994-05-17) * the whole document *	1	A61B
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	23 October 2003	Petter, E	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone	T : theory or principle underlying the invention		
Y : particularly relevant if combined with another document of the same category	E : earlier patent document, but published on, or after the filing date		
A : technological background	D : document cited in the application		
O : non-written disclosure	L : document cited for other reasons		
P : intermediate document	& : member of the same patent family, corresponding document		

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 00 1860

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
 The members are as contained in the European Patent Office EDP file on
 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

23-10-2003

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0053261	A	14-09-2000	AU WO	3147200 A 0053261 A1	28-09-2000 14-09-2000
EP 1057454	A	06-12-2000	JP JP JP EP US	2000334053 A 2001314418 A 2001314419 A 1057454 A2 2001007068 A1	05-12-2000 13-11-2001 13-11-2001 06-12-2000 05-07-2001
US 5057104	A	15-10-1991	US US	5486172 A 5282797 A	23-01-1996 01-02-1994
US 5486172	A	23-01-1996	US US AU CA EP JP WO	5282797 A 5057104 A 1609295 A 2182505 A1 0742703 A1 9508296 T 9520372 A1	01-02-1994 15-10-1991 15-08-1995 03-08-1995 20-11-1996 26-08-1997 03-08-1995
US 6171302	B1	09-01-2001	NONE		
US 5312397	A	17-05-1994	US US EP JP WO	5114422 A 5066294 A 0505486 A1 5503024 T 9108797 A1	19-05-1992 19-11-1991 30-09-1992 27-05-1993 27-06-1991